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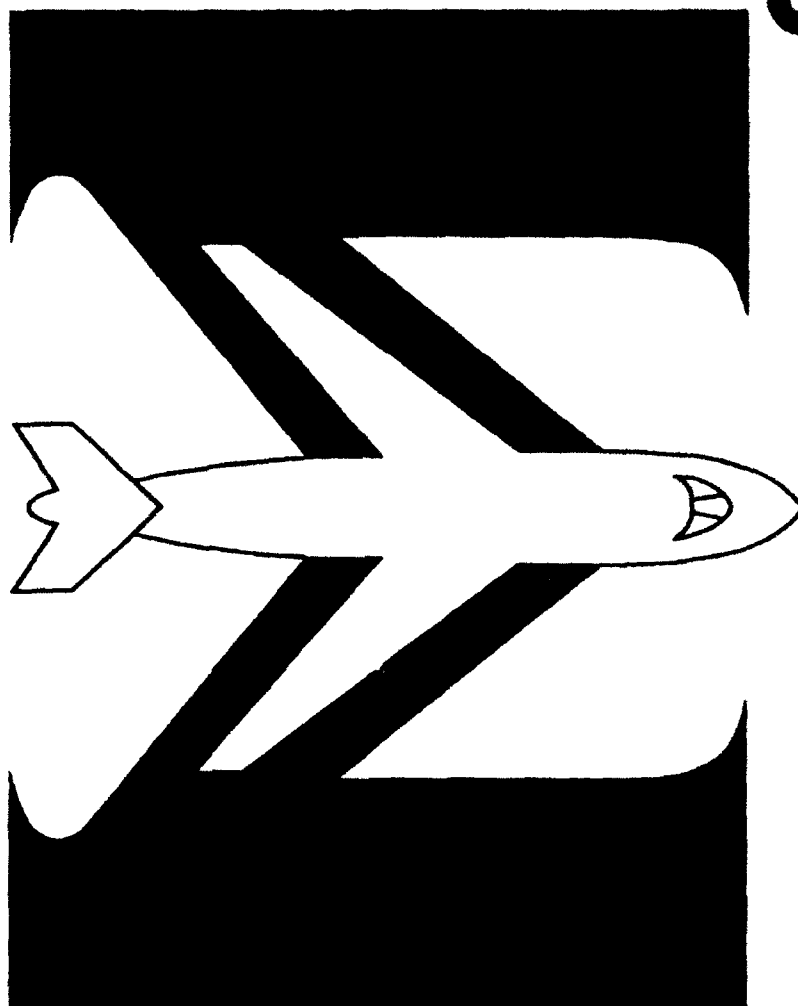
# U.S. CIVIL AIRMEN STATISTICS

AD-A266 085



Calendar Year 1991

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**Airport Activity Statistics of Certificated Route Air Carriers** is a joint publication of the Federal Aviation Administration (FAA) and the Research & Special Programs Administration (RSPA). RSPA furnishes airport activity data on certificated route air carriers; FAA organizes/publishes it. Included in the data are passenger enplanements, tons of enplaned freight and mail. Scheduled/nonscheduled service shown by airport and carrier are also included. Breakdown of data includes departures/enplanements/cargo/mail by airport, carrier & type of operation, and type of aircraft.

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**Census of U.S. Civil Aircraft** is an annual publication that includes statistical data on the registered civil fleet, air carrier aircraft, and general aviation aircraft—both registered and active, detailed reports for general aviation aircraft by owner's state and county, and registered aircraft by make and model.

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**FAA Air Traffic Activity** furnishes terminal and en route air traffic activity information (e.g., takeoffs & landings, flight plans filed) of the National Airspace System. The data is collected/compiled from the FAA-operated Airport Traffic Control Towers, Air Route Traffic Control Centers, Flight Service Stations, Approach Control Facilities, and FAA contract-towered airports.

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**FAA Statistical Handbook of Aviation** is a convenient source for historical data. It presents statistical information pertaining to the Federal Aviation Administration, the National Airspace System, Airports, Airport Activity, U.S. Civil Air Carrier Fleet, U.S. Civil Air Carrier Operating Data, Airmen, General Aviation Aircraft, Aircraft Accidents, Aeronautical Production & Import/Export.

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**General Aviation Activity and Avionics Survey** is an annual report that presents the results of the general aviation activity and avionics survey conducted to obtain information on the activity and avionics of the U.S. registered general aviation aircraft fleet. The report contains estimated flying time, landings, fuel consumption, lifetime airframe hours, avionics, and engine hours of the active general aviation aircraft by manufacturer/model group, aircraft type, state and region of based aircraft, and primary use.

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**General Aviation Pilot and Aircraft Activity Survey** includes data on the type and source of aircraft flight plan and weather information services, trip length in time and distance, pilot age and certification, estimates of total 1989 general aviation operations, fuel consumption and aircraft miles flown. The survey was conducted from June thru September 1990 by the Federal Aviation Administration with the assistance of the Civil Air Patrol.

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**Rotorcraft Activity Survey** presents the results of a special one-time survey. The report contains breakdowns of active rotorcraft, annual flight hours, average flight hours, and other statistics by rotorcraft type, manufacturer/model group, region and state of based aircraft, and primary use. Also included are law enforcement and public use rotorcraft, lifetime airframe hours, engine hours, estimated miles flown, and estimated number of landings.

Edition: . . . . . Calendar Year 1989  
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**U.S. Civil Airmen Statistics** is an annual study of detailed airmen statistics. It contains statistics on pilot and nonpilots and the number of certificates issued.

Latest edition: . . . . .	Calendar Year 1991
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## **PREFACE**

The U.S. Civil Airmen Statistics is an annual study published to meet the demands of FAA, other government agencies, and industry for more detailed airmen statistics than those published in other FAA reports.

Statistics pertaining to airmen, both pilot and nonpilot, were obtained from the official airman certification records maintained at the FAA Aeronautical Center, Oklahoma City, Oklahoma.

An active Airmen is one who hold both an airmen certificate and a valid medical certificate. Airmen who must have a valid medical to exercise the privileges of their certificate are all airplane pilots; glider, flight navigators, and lighter-than-air pilots are not required to have a medical examination but the numbers represent only those who had a valid medical certificate. Mechanics, parachute riggers, ground instructors, and dispatchers represent all certificates on record at the Aeronautical Center.

This study was prepared in the Office of Aviation Policy, Plans and Management Analysis, Planning Analysis Division, Statistics and Forecast Branch (APO-110).

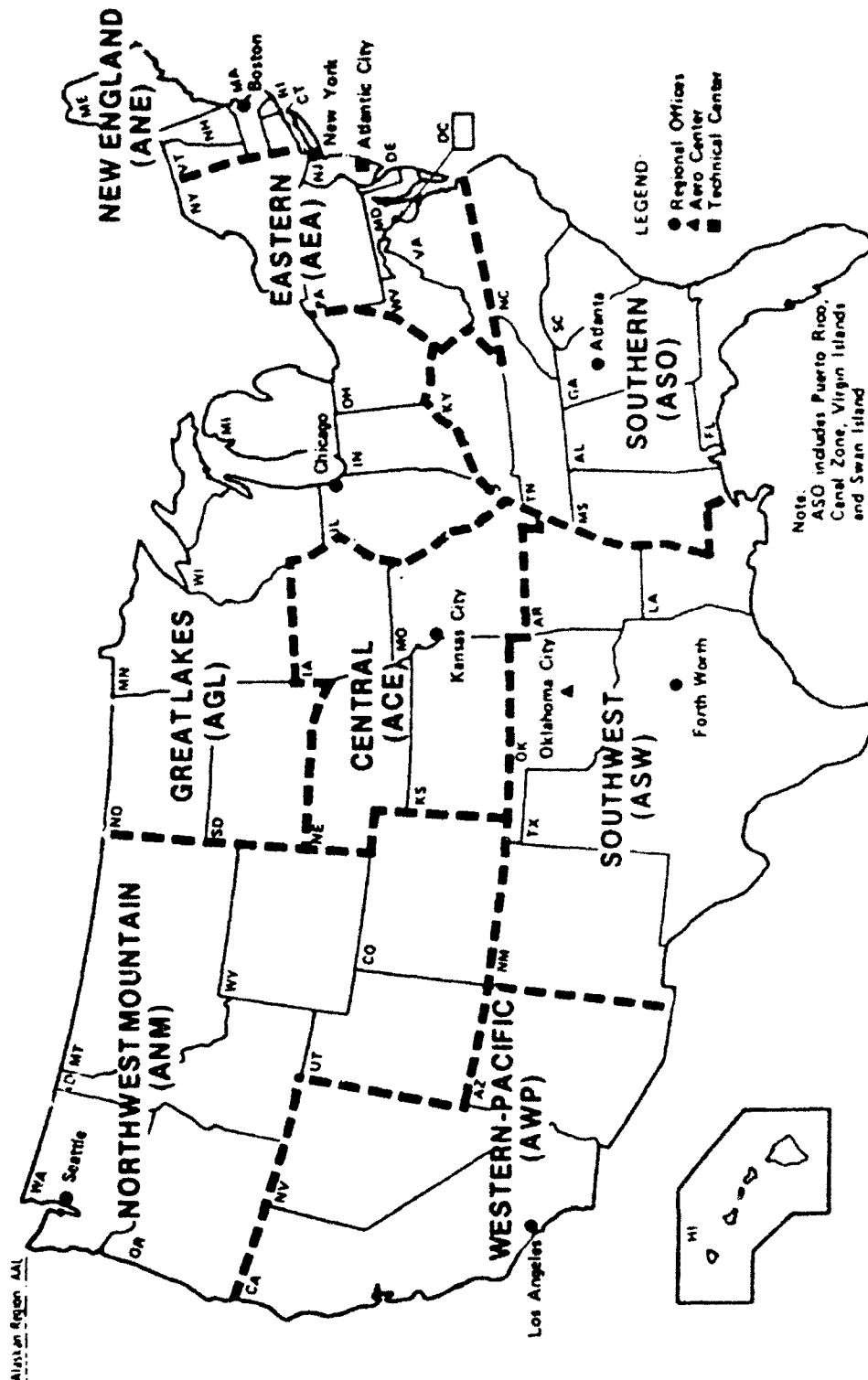
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# FAA REGIONAL BOUNDARIES

Includes Locations of Regional Headquarters and Centers





**I. ACTIVE PILOT CERTIFICATES HELD**

**TABLE 1**  
**ESTIMATED ACTIVE PILOT CERTIFICATES HELD**  
**DECEMBER 31, 1982 - 1991**

CATEGORY	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991
<b>Pilot--Total</b>	<b>733,255</b>	<b>718,004</b>	<b>722,376</b>	<b>709,540</b>	<b>709,118</b>	<b>699,653</b>	<b>694,016</b>	<b>700,010</b>	<b>702,659</b>	<b>692,095</b>
Student	156,361	147,197	150,081	146,652	150,273	146,016	136,913	142,544	128,663	120,293
Private	322,094	318,643	320,086	311,086	305,736	300,949	299,796	293,179	299,111	293,306
Commercial	165,093	159,495	155,929	151,632	147,798	143,645	143,030	144,540	149,666	148,365
Airline Transport	73,471	75,938	79,192	82,740	87,186	91,287	96,968	101,087	107,732	112,167
Helicopter (only)	7,034	7,237	7,532	8,123	8,581	8,702	8,608	8,863	9,567	9,860
Glider (only) 1/	7,842	8,157	8,390	8,168	8,411	7,901	7,600	7,708	7,833	8,033
Lighter than air 1/	1,360	1,337	1,166	1,139	1,133	1,153	1,111	1,089	2/	2/
Recreational	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2/	161
<b>Nonpilot--Total r/</b>	<b>399,661</b>	<b>413,199</b>	<b>426,802</b>	<b>395,139</b>	<b>410,079</b>	<b>427,962</b>	<b>448,710</b>	<b>468,405</b>	<b>492,737</b>	<b>517,462</b>
Mechanic 3/	277,436	288,335	298,028	274,100	284,241	297,178	312,419	326,243	344,287	366,392
Parachute Rigger 2/	9,893	10,074	10,194	9,395	9,515	9,659	9,770	9,879	10,094	7,916
Ground Instructor 2/	65,004	66,385	67,463	58,214	59,443	60,861	62,582	64,503	66,882	70,080
Dispatcher 3/	7,580	8,223	8,980	8,511	9,025	9,431	10,020	10,455	11,002	11,607
Flight Navigator	1,695	1,636	1,603	1,542	1,512	1,445	1,400	1,357	1,290	1,225
Flight Engineer	38,053	38,546	40,534	43,377	46,323	49,778	52,515	55,968	58,687	60,236
Flight Instructor Certificates 4/	62,492	62,201	61,173	58,940	57,355	60,316	61,798	61,472	63,775	69,209
Instrument Ratings 5/	255,073	254,271	256,584	258,553	262,388	266,122	273,804	282,804	297,073	313,193

1/ Glider and lighter-than-air pilots are not required to have a medical examination, however, the totals above represent pilots who received a medical examination within the last 25 months.

2/ Lighter-than-air type ratings are no longer being issued.

3/ Numbers represent all certificates on record. No medical examination required.

4/ Not included in total.

5/ Special ratings shown on pilot certificates, do not indicate additional certificates.

r/ Revised 1982-1988.

N/A Not Available.

TABLE 2  
ESTIMATED ACTIVE WOMEN CERTIFICATES HELD  
DECEMBER 31, 1982 1991

CATEGORY	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991
Pilot--Total	45,305	43,648	44,339	43,483	43,082	42,578	42,299	42,366	40,515	40,931
Student	19,958	18,696	19,435	19,058	18,899	18,367	17,529	17,637	15,007	14,501
Private	19,388	18,801	17,616	17,974	17,532	17,349	17,544	16,998	17,301	17,514
Commercial	4,257	4,281	4,232	4,185	4,176	4,208	4,410	4,760	5,210	5,652
Airline Transport	749	884	1,032	1,184	1,334	1,538	1,745	1,899	2,082	2,308
Helicopter (only)	113	144	167	196	232	247	259	273	292	307
Glider (only) 1/	574	599	631	653	667	627	590	586	617	634
Lighter than air 1/	266	243	226	233	242	242	222	224	21	21
Recreational	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	6	15
Nonpilot--Total r/	5,897	6,151	6,591	6,017	6,502	7,101	7,842	10,683	9,557	10,324
Mechanic 3/	1,298	1,493	1,649	1,775	1,964	2,237	2,565	2,892	3,333	3,901
Parachute Rigger 3/	593	605	614	412	414	428	441	451	474	363
Ground Instructor 2/	3,391	3,554	3,680	2,980	3,087	3,232	3,391	3,554	3,760	3,952
Dispatcher 3/	199	249	310	394	460	524	622	711	802	852
Flight Navigator	1	2	3	1	0	0	1	1	0	0
Flight Engineer	215	248	300	455	577	680	822	3,014	1,188	1,256
Flight Instructor Certificates 4/	2,532	2,685	2,736	2,731	2,687	2,909	3,018	3,074	3,239	3,629

1/ Glider and lighter-than-air pilots are not required to have a medical examination; however, the totals above represent pilots who received a medical examination within the last 25 months.

2/ Lighter-than-air type rating is no longer being issued.

3/ Numbers represent all certificates on record. No medical examination required.

4/ Not included in total.

r/ Revised 1982-1988

N/A Not Available.

**TABLE 3**  
**ESTIMATED ACTIVE PILOT AND NONPILOT CERTIFICATES HELD**  
**BY CLASS OF CERTIFICATES AND BY FAA REGION**  
**DECEMBER 31, 1991**

CLASS OF CERTIFICATE	Total 1/	Alaskan	Central	Eastern	Great Lakes	New England	Northwest Mountain	South	Southwest	Western Pacific	Outside U.S. 2/
<b>Total All Pilots</b>	<b>692,095</b>	<b>9,678</b>	<b>33,567</b>	<b>89,351</b>	<b>113,130</b>	<b>32,013</b>	<b>65,550</b>	<b>120,397</b>	<b>79,625</b>	<b>119,434</b>	<b>29,350</b>
<b>Student Pilots - Total</b>	<b>120,703</b>	<b>1,346</b>	<b>5,495</b>	<b>17,608</b>	<b>20,550</b>	<b>5,755</b>	<b>10,741</b>	<b>20,524</b>	<b>12,655</b>	<b>20,142</b>	<b>5,387</b>
<b>Private Pilots - Total</b>	<b>293,306</b>	<b>4,498</b>	<b>16,881</b>	<b>37,610</b>	<b>54,396</b>	<b>14,461</b>	<b>28,239</b>	<b>46,524</b>	<b>32,211</b>	<b>52,472</b>	<b>6,007</b>
Private Airplane (only)	282,047	4,358	16,432	35,984	52,966	13,954	27,135	44,631	31,067	48,155	5,387
Private Airplane, Private Glider	4,113	41	157	663	645	199	387	650	393	515	60
Private Airplane, Commercial Glider	878	3	19	182	131	63	139	17	74	182	6
Private Airplane, Private Gyroplane	20	0	2	0	8	1	2	0	0	2	0
Private Airplane, Private Helicopter	1,722	17	71	208	169	86	180	241	172	388	185
Private Airplane, Private Glider, Private Helicopter	71	0	1	15	8	9	3	13	4	14	6
Private Airplane, Commercial Helicopter	4,405	78	280	550	466	148	473	883	492	811	364
Private Airplane, Private Glider, Commercial Helicopter	35	1	1	5	1	0	5	4	2	8	2
Private Airplane, Commercial Glider, Commercial Helicopter	14	0	0	2	1	1	1	3	2	2	2
Private Airplane, Commercial Gyroplane, Commercial Helicopter	1	0	0	0	1	0	0	0	0	0	0
<b>Commercial Pilots - Total</b>	<b>148,365</b>	<b>2,476</b>	<b>6,915</b>	<b>18,071</b>	<b>22,115</b>	<b>5,919</b>	<b>13,674</b>	<b>26,559</b>	<b>18,451</b>	<b>24,349</b>	<b>9,836</b>
Commercial Airplane (only)	128,207	2,174	6,072	15,225	19,884	5,122	11,622	22,332	15,883	20,426	9,467
Commercial Airplane, Private Glider	2,072	24	86	328	293	84	277	365	223	423	19
Commercial Airplane, Commercial Glider	3,645	28	140	556	471	210	439	564	404	795	36
Commercial Airplane, Commercial Gyroplane, Commercial Glider	2	0	0	0	0	0	0	0	1	1	0
Commercial Airplane, Private Helicopter	379	5	16	50	53	23	33	70	32	77	20
Commercial Airplane, Commercial Glider, Private Helicopter	26	0	0	7	4	1	1	2	3	8	0
Commercial Airplane, Commercial Helicopter	13,316	234	571	1,802	1,335	441	1,274	3,074	1,828	2,457	280
Commercial Airplane, Private Glider, Commercial Helicopter	146	2	5	20	21	8	18	26	12	29	5
Commercial Airplane, Commercial Glider, Commercial Helicopter	518	7	21	79	46	23	52	93	61	124	6
Commercial Airplane, Commercial Helicopter, Commercial Gyroplane	19	0	1	2	2	0	3	4	0	5	2
Commercial Airplane, Commercial Gyroplane	25	2	2	1	4	1	4	6	3	2	0
Commercial Airplane, Commercial Gyroplane, Commercial Helicopter	10	0	1	1	2	0	1	1	1	2	1
Commercial Glider	10	0	1	1	2	0	1	1	1	2	1
<b>Airline Transport Pilots - Total</b>	<b>112,167</b>	<b>1,242</b>	<b>3,755</b>	<b>12,980</b>	<b>14,249</b>	<b>4,904</b>	<b>11,369</b>	<b>24,052</b>	<b>14,543</b>	<b>18,377</b>	<b>6,746</b>
Airline Transport Airplane (only)	110,131	1,183	3,713	12,615	14,071	4,780	11,192	23,590	14,219	18,094	6,674
Airline Transport Airplane, Airline Transport Helicopter	2,036	59	42	365	178	124	177	462	324	283	72

TABLE 3  
ESTIMATED ACTIVE PILOT AND NONPILOT CERTIFICATES HELD  
BY CLASS OF CERTIFICATES AND BY FAA REGION  
DECEMBER 31, 1991

CLASS OF CERTIFICATE	Total 1/	Alaskan	Central	Eastern	Great Lakes	New England	Northwest Mountain	Southern	Southwest	Western Pacific	Outside U.S. 2/
<b>Rotorcraft (only) Pilots--Total</b>	<b>9,860</b>	<b>101</b>	<b>379</b>	<b>1,389</b>	<b>812</b>	<b>463</b>	<b>676</b>	<b>2,052</b>	<b>1,118</b>	<b>1,659</b>	<b>1,193</b>
Private Gyroplane	15	0	1	0	5	2	2	1	0	1	1
Private Helicopter	1,864	4	27	217	111	152	99	143	70	494	547
Commercial Helicopter	7,469	83	344	1,091	668	295	519	1,553	962	1,116	1,622
Commercial Helicopter, Private Glider	7	0	0	2	1	0	0	1	1	1	0
Commercial Helicopter, Commercial Glider	2	0	0	1	1	0	0	0	0	0	0
Commercial Gyroplane	1	0	0	0	1	0	0	0	0	0	0
Commercial Helicopter, Commercial Gyroplane	2	0	1	0	0	0	0	0	1	0	0
Airline Transport Helicopter	500	14	6	78	25	14	31	93	104	47	10
<b>Glider (only)--Total</b>	<b>8,033</b>	<b>14</b>	<b>130</b>	<b>1,655</b>	<b>972</b>	<b>499</b>	<b>846</b>	<b>704</b>	<b>616</b>	<b>2,418</b>	<b>179</b>
Private Glider	6,929	10	112	1,398	833	411	702	615	532	2,160	156
Commercial Glider	1,104	4	18	257	139	88	144	89	84	258	23
<b>Recreational Pilots</b>	<b>161</b>	<b>1</b>	<b>10</b>	<b>38</b>	<b>36</b>	<b>12</b>	<b>5</b>	<b>32</b>	<b>11</b>	<b>12</b>	<b>4</b>
<b>Nonpilots--Total</b>	<b>517,432</b>	<b>5,252</b>	<b>24,660</b>	<b>70,152</b>	<b>66,954</b>	<b>20,615</b>	<b>44,773</b>	<b>93,377</b>	<b>71,009</b>	<b>97,194</b>	<b>23,446</b>
Mechanic 3/	366,362	3,633	19,292	51,030	46,610	14,266	29,135	62,719	52,048	71,565	16,064
Parachute Rigger 3/	7,916	111	375	1,234	1,048	279	1,102	1,444	863	1,277	183
Ground Instructor 3/	70,086	830	3,387	9,449	10,809	2,976	6,510	12,476	9,096	12,439	2,114
Dispatcher 3/	11,607	219	167	2,188	1,200	294	586	2,180	995	1,546	2,232
Flight Navigator	1,225	7	5	191	32	142	147	252	72	346	31
Flight Engineer	60,236	452	1,434	6,060	7,255	2,658	7,293	14,304	7,935	10,021	2,822
<b>Flight Instructor Certificates--Total 4/</b>	<b>69,209</b>	<b>840</b>	<b>3,363</b>	<b>9,597</b>	<b>11,776</b>	<b>3,135</b>	<b>6,695</b>	<b>12,272</b>	<b>8,366</b>	<b>11,350</b>	<b>1,815</b>
<b>Instrument Ratings 5/</b>	<b>303,193</b>	<b>3,764</b>	<b>12,975</b>	<b>38,232</b>	<b>45,364</b>	<b>13,224</b>	<b>28,088</b>	<b>58,947</b>	<b>37,287</b>	<b>50,143</b>	<b>15,169</b>

1/ Includes Outside U.S. total.

2/ Outside U.S. includes airmen certificated by the FAA who live outside the 50 states or foreign countries.

3/ Total ratings issued to date. These ratings retain their validity without periodic medical examinations.

4/ Not included in total.

5/ Special ratings shown on pilot certificates, do not indicate additional ratings.

**TABLE 4**  
**ESTIMATED ACTIVE PILOTS AND FLIGHT INSTRUCTORS**  
**BY FAA REGION AND STATE**  
**DECEMBER 31, 1991**

FAA REGION AND STATE	Total Pilots	Students	Private	Commercial	Airline Transport	Multi- Engine	Flight Instructor 2+
<b>Total 3/</b>	<b>692,095</b>	<b>120,203</b>	<b>293,306</b>	<b>148,365</b>	<b>112,167</b>	<b>18,054</b>	<b>69,209</b>
<b>United States--Total</b>	<b>662,745</b>	<b>114,816</b>	<b>287,299</b>	<b>138,529</b>	<b>105,421</b>	<b>16,680</b>	<b>67,394</b>
<b>Alaskan Region--Total</b>	<b>9,678</b>	<b>1,346</b>	<b>4,498</b>	<b>2,476</b>	<b>1,242</b>	<b>116</b>	<b>840</b>
<b>Central Region--Total</b>	<b>33,567</b>	<b>5,495</b>	<b>16,883</b>	<b>6,915</b>	<b>3,755</b>	<b>519</b>	<b>3,363</b>
Iowa	6,904	1,161	3,798	1,386	469	90	607
Kansas	9,177	1,392	4,696	1,952	993	144	910
Missouri	12,585	2,093	5,926	2,451	1,875	240	1,355
Nebraska	4,901	849	2,463	1,126	418	45	431
<b>Eastern Region--Total</b>	<b>89,351</b>	<b>17,608</b>	<b>37,610</b>	<b>18,071</b>	<b>12,980</b>	<b>3,082</b>	<b>9,597</b>
Delaware	1,715	293	700	361	318	43	214
District of Columbia	544	94	249	120	48	33	50
Maryland	9,999	1,917	4,378	2,020	1,374	310	1,037
New Jersey	14,037	2,824	5,949	2,508	2,268	488	1,506
New York	22,538	4,776	9,938	4,393	2,410	1,021	2,340
Pennsylvania	21,265	4,155	9,246	4,001	3,267	596	2,488
Virginia	15,595	2,710	5,611	3,828	2,994	452	1,637
West Virginia	2,516	540	1,215	486	210	65	240
Armed Forces Europe (AE) 4/	1,142	299	324	354	91	74	85
<b>Great Lakes Region--Total</b>	<b>113,130</b>	<b>20,550</b>	<b>54,396</b>	<b>22,115</b>	<b>14,249</b>	<b>1,820</b>	<b>11,776</b>
Illinois	25,653	4,643	11,525	4,917	4,130	438	2,902
Indiana	12,357	2,398	6,105	2,410	1,282	162	1,250
Michigan	19,461	3,618	9,795	3,603	2,046	399	1,984
Minnesota	16,976	2,958	7,790	3,378	2,628	222	1,665
North Dakota	3,321	534	1,581	1,028	153	25	335
Ohio	21,154	3,795	10,356	4,105	2,486	412	2,295
South Dakota	2,366	394	1,111	602	233	26	223
Wisconsin	11,842	2,210	6,133	2,072	1,291	136	1,122
<b>New England Region--Total</b>	<b>32,013</b>	<b>5,755</b>	<b>14,461</b>	<b>5,919</b>	<b>4,904</b>	<b>974</b>	<b>3,135</b>
Connecticut	8,406	1,400	3,469	1,486	1,793	258	830
Maine	3,788	766	1,769	814	379	60	318
Massachusetts	11,813	2,294	5,760	2,089	1,248	427	1,165
New Hampshire	4,639	667	1,902	861	1,088	121	514
Rhode Island	1,530	281	729	315	166	39	138
Vermont	1,837	347	832	354	230	74	170
<b>Northwest Mountain Region--Total</b>	<b>65,550</b>	<b>10,741</b>	<b>28,239</b>	<b>13,674</b>	<b>11,369</b>	<b>1,527</b>	<b>6,695</b>
Colorado	16,811	2,538	6,255	3,631	3,879	508	2,110
Idaho	4,345	688	2,151	952	482	72	404
Montana	3,713	588	1,842	897	343	43	365
Oregon	10,271	1,737	5,303	2,125	856	250	992
Utah	6,030	1,134	2,527	1,101	1,140	128	527
Washington	22,457	3,778	9,120	4,590	4,477	492	2,128
Wyoming	1,923	278	1,041	378	192	34	169

TABLE 4  
ESTIMATED ACTIVE PILOTS AND FLIGHT INSTRUCTORS  
BY FAA REGION AND STATE  
DECEMBER 31, 1991

FAA REGION AND STATE	Total Pilots	Students	Private	Commercial	Airline Transport	Misc 1/	Flight Instructor 2/
<b>Southern Region--Total</b>	<b>120,397</b>	<b>20,524</b>	<b>46,524</b>	<b>26,559</b>	<b>24,002</b>	<b>2,788</b>	<b>12,272</b>
Alabama	8,730	1,600	3,638	2,121	820	551	972
Florida	47,630	7,525	18,728	11,280	9,796	801	5,166
Georgia	18,370	2,849	6,397	3,593	5,173	358	1,612
Kentucky	6,210	1,192	2,506	1,077	1,276	159	618
Mississippi	4,570	912	1,770	1,350	436	102	420
North Carolina	15,288	2,773	6,264	3,028	2,825	398	1,465
South Carolina	6,859	1,348	2,821	1,644	906	140	654
Tennessee	12,626	2,307	4,874	2,422	2,760	263	1,473
Armed Forces Europe (AE) 4/	114	18	26	44	10	16	5
<b>Southwest Region--Total</b>	<b>79,625</b>	<b>12,655</b>	<b>32,211</b>	<b>18,451</b>	<b>14,543</b>	<b>1,765</b>	<b>8,366</b>
Arkansas	5,895	1,092	2,588	1,546	591	78	529
Louisiana	7,598	1,268	2,930	2,125	963	312	787
New Mexico	4,794	738	2,098	1,222	602	134	549
Oklahoma	10,361	1,799	5,043	2,314	1,066	139	1,001
Texas	50,977	7,758	19,552	11,244	11,321	1,102	5,440
<b>Western-Pacific Region--Total</b>	<b>119,434</b>	<b>20,142</b>	<b>52,477</b>	<b>24,349</b>	<b>18,377</b>	<b>4,089</b>	<b>11,350</b>
Arizona	16,364	3,026	6,406	3,533	2,896	503	1,920
California	93,416	15,504	42,753	18,748	13,256	3,155	8,466
Hawaii	3,339	620	870	756	842	251	350
Nevada	5,568	740	2,249	1,095	1,327	157	578
Armed Forces Pacific (AP) 4/	747	252	199	217	56	23	36
<b>Outside U. S. --Total 5/</b>	<b>29,350</b>	<b>5,387</b>	<b>6,007</b>	<b>9,836</b>	<b>6,746</b>	<b>1,374</b>	<b>1,815</b>
<b>Other U. S. Areas:</b>	<b>2,134</b>	<b>626</b>	<b>664</b>	<b>376</b>	<b>414</b>	<b>54</b>	<b>0</b>
American Samoa	13	2	1	5	4	1	0
Guam	166	19	32	27	84	4	0
Puerto Rico	1,659	529	532	285	269	44	0
Virgin Island	296	76	99	59	57	5	0

1/ Includes helicopter, glider, and recreational. Lighter than air type rating is no longer being issued.

2/ Not included in total.

3/ Includes Outside U.S.

4/ Military personnel holding civilian certificate stationed in foreign country.

5/ Outside U.S. includes Other U.S. Areas outside of the 50 states and foreign countries.

TABLE 5  
ESTIMATED ACTIVE WOMEN PILOTS AND FLIGHT INSTRUCTORS  
BY FAA REGION AND STATE  
DECEMBER 31, 1991

FAA REGION AND STATE	Total Pilots	Students	Private	Commercial	Airline Transport	Misc 1/	Flight Instructor 2/
Total 3/	40,931	14,501	17,514	5,652	2,308	956	3,705
United States--Total	39,812	11,132	17,140	5,392	2,251	897	3,629
Alaskan Region--Total	710	223	358	100	25	4	58
Central Region--Total	1,773	646	863	183	58	23	125
Iowa	304	119	148	30	6	1	16
Kansas	492	159	256	48	21	8	37
Missouri	735	279	340	80	25	11	54
Nebraska	242	89	119	25	6	3	18
Eastern Region--Total	5,496	2,052	2,241	728	288	187	501
Delaware	82	20	39	15	5	3	8
District of Columbia	56	24	27	4	5	1	7
Maryland	721	257	322	78	40	24	58
New Jersey	870	341	339	121	45	24	78
New York	1,353	497	540	176	68	72	126
Pennsylvania	1,348	511	566	187	58	26	129
Virginia	875	318	342	126	61	28	90
West Virginia	132	53	54	16	5	4	7
Armed Forces Europe (AE) 4/	59	31	17	5	1	5	3
Great Lakes Region--Total	6,835	2,492	2,979	971	310	83	638
Illinois	1,655	567	704	271	97	16	170
Indiana	658	256	271	102	26	3	63
Michigan	1,195	447	523	142	50	33	102
Minnesota	1,043	380	445	151	55	12	106
North Dakota	188	58	86	41	3	0	22
Ohio	1,281	478	565	171	52	15	119
South Dakota	94	36	39	13	5	1	6
Wisconsin	721	270	346	80	22	3	50
New England Region--Total	2,079	724	908	268	117	62	193
Connecticut	519	176	207	76	42	18	52
Maine	219	95	93	20	7	4	11
Massachusetts	794	288	357	94	38	17	78
New Hampshire	296	75	136	50	20	15	36
Rhode Island	109	38	54	13	3	1	5
Vermont	142	52	61	15	7	7	11
Northwest Mountain Region--Total	4,358	1,500	1,853	634	271	100	422
Colorado	1,209	410	427	238	97	37	158
Idaho	243	72	116	39	11	5	27
Montana	203	68	104	22	9	0	17
Oregon	726	250	354	78	27	17	54
Utah	287	124	100	38	18	7	22
Washington	1,572	534	693	209	103	33	136
Wyoming	118	42	59	10	6	1	8



TABLE 5  
ESTIMATED ACTIVE WOMEN PILOTS AND FLIGHT INSTRUCTORS  
BY FAA REGION AND STATE  
DECEMBER 31, 1991

FAA REGION AND STATE	Total Pilots	Students	Private	Commercial	Airline Transport	Misc 1/	Flight Instructor 2/
<b>Southern Region--Total</b>	<b>6,334</b>	<b>2,435</b>	<b>2,471</b>	<b>865</b>	<b>456</b>	<b>107</b>	<b>579</b>
Alabama	395	176	156	39	8	16	22
Florida	2,884	999	1,206	439	193	47	282
Georgia	777	331	288	95	55	8	67
Kentucky	289	121	89	32	44	3	29
Mississippi	196	95	61	25	12	3	18
North Carolina	813	305	333	101	61	13	69
South Carolina	337	143	115	55	17	7	32
Tennessee	639	263	223	78	66	9	60
Armed Forces Europe (AE) 4/	4	2	0	1	0	1	0
<b>Southwest Region--Total</b>	<b>3,981</b>	<b>1,423</b>	<b>1,709</b>	<b>531</b>	<b>242</b>	<b>76</b>	<b>371</b>
Arkansas	246	83	123	33	4	3	16
Louisiana	275	106	109	40	15	5	33
New Mexico	312	106	132	43	18	13	37
Oklahoma	603	221	271	76	31	4	56
Texas	2,545	907	1,074	339	174	51	229
<b>Western-Pacific Region--Total</b>	<b>8,246</b>	<b>2,637</b>	<b>3,758</b>	<b>1,112</b>	<b>484</b>	<b>255</b>	<b>742</b>
Arizona	1,121	342	517	157	74	31	105
California	6,474	2,073	2,980	870	350	201	581
Hawaii	226	78	71	32	30	15	27
Nevada	369	110	176	47	29	7	28
Armed Forces Pacific (AP) 4/	56	34	14	6	1	1	1
<b>Outside U. S. --Total 5/</b>	<b>1,119</b>	<b>369</b>	<b>374</b>	<b>260</b>	<b>57</b>	<b>59</b>	<b>76</b>
<b>Other U. S. Areas:</b>	<b>92</b>	<b>52</b>	<b>18</b>	<b>9</b>	<b>6</b>	<b>7</b>	<b>0</b>
Guam	9	0	5	1	2	1	0
Puerto Rico	61	39	9	6	2	5	0
Virgin Island	22	13	4	2	2	1	0

1/ Includes helicopter, glider, and recreational pilots. Lighter-than-air type rating is no longer being issued.

2/ Not included in total.

3/ Includes Outside U.S.

4/ Military personnel holding civilian certificate stationed in foreign country.

5/ Outside U.S. includes Other U.S. Areas outside of the 50 states and foreign countries.

**TABLE 6**  
**ESTIMATED ACTIVE HELICOPTER PILOTS**  
**BY CLASS OF CERTIFICATES**  
**DECEMBER 31, 1991**

CLASS OF CERTIFICATE	Number of Certificates Held
<b>TOTAL</b>	<b>32,605</b>
Private Helicopter	1,864
Private Helicopter, Private Airplane	1,722
Private Helicopter, Private Airplane, Private Glider	71
Private Helicopter, Commercial Airplane	379
Private Helicopter, Commercial Airplane, Commercial Glider	26
Private Gyroplane	15
Private Gyroplane, Private Airplane	20
Commercial Helicopter	7,469
Commercial Helicopter, Private Airplane	4,405
Commercial Helicopter, Private Glider	7
Commercial Helicopter, Commercial Glider	2
Commercial Helicopter, Private Airplane, Commercial Gyroplane	1
Commercial Helicopter, Private Airplane, Private Glider	35
Commercial Helicopter, Private Airplane, Commercial Glider	14
Commercial Helicopter, Commercial Airplane	13,316
Commercial Helicopter, Commercial Airplane, Private Glider	146
Commercial Helicopter, Commercial Airplane, Commercial Glider	518
Commercial Gyroplane	1
Commercial Helicopter, Commercial Airplane, Commercial Gyroplane	19
Commercial Helicopter, Commercial Airplane, Commercial Gyroplane, Commercial Glider	10
Commercial Helicopter, Commercial Gyroplane	2
Commercial Gyroplane, Commercial Airplane	25
Commercial Gyroplane, Commercial Airplane, Commercial Glider	2
Airline Transport Helicopter	500
Airline Transport Airplane, Airline Transport Helicopter	2,036

**TABLE 7**  
**ESTIMATED ACTIVE GLIDER PILOTS**  
**BY CLASS OF CERTIFICATES**  
**DECEMBER 31, 1991**

CLASS OF CERTIFICATE	Number of Certificates Held
<b>Total</b>	<b>19,570</b>
Private Glider	6,929
Private Glider, Private Airplane	4,113
Private Glider, Private Airplane, Private Helicopter	71
Private Glider, Private Airplane, Commercial Helicopter	35
Private Glider, Commercial Airplane	2,072
Private Glider, Commercial Airplane, Commercial Helicopter	146
Private Glider, Commercial Helicopter	4
Commercial Glider	1,104
Commercial Glider, Commercial Airplane	3,645
Commercial Glider, Private Airplane	878
Commercial Glider, Private Airplane, Commercial Helicopter	14
Commercial Glider, Commercial Helicopter	3
Commercial Glider, Commercial Airplane, Private Helicopter	26
Commercial Glider, Commercial Airplane, Commercial Helicopter	518
Commercial Glider, Commercial Airplane, Commercial Gyroplane	2
Commercial Glider, Commercial Airplane, Commercial Gyroplane, Commercial Helicopter	10

**TABLE 8**  
**ESTIMATED ACTIVE HELICOPTER AND GLIDER PILOTS**  
**DECEMBER 31, 1986-1990**

Calendar Year	Total Helicopter Pilots 1/		Total Glider Pilots 2/	
	Number	Percent Change	Number	Percent Change
1991	32,605	-0.4%	19,570	0.1%
1990	32,741	3.6%	19,546	2.1%
1989	31,602	0.8%	19,149	0.3%
1988	31,349	-0.5%	19,095	-2.2%
1987	31,513	-0.6%	19,530	-4.1%

1/ Includes pilots with ratings to fly helicopters only.

2/ Includes pilots with ratings to fly gliders only.

**TABLE 9**  
**ESTIMATED TOTAL PILOTS AND INSTRUMENT RATED PILOTS**  
**DECEMBER 31, 1987-1991**

Calendar Year	Total Number 1/	Instrument Rated Pilots	
		Number	Percent of Total
1991	571,892	303,193	53.0%
1990	574,208	297,073	51.7%
1989	557,466	282,804	50.7%
1988	557,103	273,804	49.1%
1987	553,637	266,122	48.1%

1/ Excludes student pilots.

TABLE 10  
ESTIMATED ACTIVE PILOT CERTIFICATES HELD  
BY CATEGORY AND AGE GROUP OF HOLDER  
1991, 1990, AND 1987

YEAR	Type of Pilot Certificates								
	Total Active Pilots			Student			Private		
	1991	1990	1987	1991	1990	1987	1991	1990	1987
Total	692,095	702,659	699,653	120,203	128,863	146,016	293,306	299,111	305,736
Age Group									
14-15	30	36	264	30	236	264	0	0	0
16-19	17,558	17,810	19,752	12,888	13,743	15,542	4,259	3,715	3,222
20-24	58,349	57,022	56,575	22,070	23,510	26,443	22,095	20,888	21,096
25-29	78,697	80,880	86,336	21,111	23,410	27,617	26,572	27,929	33,569
30-34	91,805	94,816	99,311	18,757	20,262	23,762	35,772	37,790	44,654
35-39	95,334	97,095	99,686	15,601	16,557	18,413	43,227	44,881	46,367
40-44	93,317	98,681	97,082	11,492	12,272	13,437	42,122	43,646	41,428
45-49	82,624	80,583	75,194	7,740	7,859	8,251	35,823	35,207	32,152
50-54	59,672	60,586	57,844	4,508	4,705	5,214	26,223	26,729	27,064
55-59	45,449	46,550	47,529	2,756	2,984	3,621	20,615	21,929	26,539
60 and over	69,260	68,600	60,080	3,250	3,325	3,452	36,598	36,397	29,645

YEAR	Type of Pilot Certificates								
	Commercial			Airline Transport			Helicopter (Only)		
	1991	1990	1987	1991	1990	1987	1991	1990	1987
Total	148,365	149,666	143,645	112,167	107,732	91,287	9,860	9,567	8,702
Age Group									
14-15	0	0	0	0	0	0	0	0	0
16-19	291	247	215	0	0	0	43	33	10
20-24	12,531	11,107	7,791	402	382	453	987	872	891
25-29	21,627	20,354	16,999	6,379	6,216	6,436	2,529	2,465	2,416
30-34	17,981	18,132	16,497	16,466	15,701	13,117	2,001	2,016	1,709
35-39	15,867	16,040	17,514	17,951	16,992	15,614	1,328	1,297	1,575
40-44	16,990	19,546	22,637	19,758	20,167	16,792	1,560	1,671	1,322
45-49	18,254	18,518	18,146	18,855	17,378	14,342	887	717	441
50-54	13,446	14,077	14,349	14,512	14,123	11,335	315	311	198
55-59	11,353	11,623	11,140	10,074	9,389	7,184	120	109	86
60 and over	20,025	20,022	18,357	7,770	7,384	6,014	90	76	54

YEAR	Type of Pilot Certificates								
	Glider (Only) 1/			Recreational			Flight Instructor 2/		
	1991	1990	1987	1991	1990	1987	1991	1990	1987
Total	8,033	7,833	7,901	161	87	N/A	69,209	63,775	60,316
Age Group									
14-15	0	0	0	0	0		0	0	0
16-19	72	72	118	5	0		84	87	91
20-24	259	260	428	5	3		6,079	5,258	4,349
25-29	470	495	678	9	11		10,168	8,879	7,927
30-34	805	899	1,237	23	16		9,267	8,493	8,518
35-39	1,335	1,313	1,363	25	15		8,853	8,372	8,734
40-44	1,373	1,369	1,112	22	10		9,118	9,102	9,343
45-49	1,046	897	732	19	7		8,584	7,627	6,895
50-54	651	634	549	17	7		5,977	5,715	5,195
55-59	524	510	596	7	6		4,585	4,262	3,968
60 and over	1,498	1,384	1,088	29	12		6,494	5,980	5,296

1/ Glider pilots are not required to have a medical examination; however, totals above represent pilots who received a medical examination.

2/ Not included in total active pilots.

**TABLE 11**  
**AVERAGE AGE OF ACTIVE PILOTS BY CATEGORY**

CALENDAR YEAR	TOTAL 1/	STUDENT	PRIVATE	COMMERCIAL	AIRLINE TRANSPORT
1982	38.3	31.2	39.5	41.0	42.3
1983	38.8	31.7	40.0	41.5	42.5
1984	39.2	32.1	40.4	42.0	42.7
1985	39.5	32.4	40.8	42.4	42.8
1986	39.7	32.2	41.1	42.6	43
1987	39.9	32.3	41.4	42.7	43.1
1988	40.1	32.5	41.4	42.6	43.2
1989	40.2	32.7	41.8	42.5	43.4
1990	40.5	32.5	42.0	42.2	43.6
1991	40.5	32.6	42.0	41.8	43.7

1/ Includes helicopter (only), glider (only), and recreational pilots not shown separately.

**TABLE 12**  
**ESTIMATED INSTRUMENT RATINGS HELD**  
**BY CLASS OF CERTIFICATES**  
**DECEMBER 31, 1991 AND 1990**

CLASS OF CERTIFICATE	1991	1990	% Change
<b>Total--All Pilots</b>	<b>303,193</b>	<b>297,073</b>	<b>2%</b>
<b>Private Pilots--Total</b>	<b>55,557</b>	<b>53,920</b>	<b>3%</b>
Private Airplane (only)	51,215	49,550	3%
Private Airplane, Private Glider	1,103	1,069	3%
Private Airplane, Commercial Glider	134	122	10%
Private Airplane, Private Helicopter	451	432	4%
Private Airplane, Private Glider, Private Helicopter	31	32	-3%
Private Airplane, Commercial Helicopter	2,594	2,683	-3%
Private Airplane, Private Gyroplane	3	5	-40%
Private Airplane, Private Glider, Commercial Helicopter	16	16	0%
Private Airplane, Commercial Glider, Commercial Helicopter	9	10	-10%
Private Airplane, Other	1	1	0%
<b>Commercial Pilots--Total</b>	<b>129,774</b>	<b>129,426</b>	<b>0%</b>
Commercial Airplane (only)	111,835	110,719	1%
Commercial Airplane, Private Glider	1,802	1,825	-1%
Commercial Airplane, Commercial Glider	3,048	3,141	-3%
Commercial Airplane, Private Helicopter	336	307	9%
Commercial Airplane, Commercial Helicopter	12,079	12,716	-5%
Commercial Airplane, Private Glider, Commercial Helicopter	130	145	-10%
Commercial Airplane, Commercial Glider, Commercial Helicopter	474	496	-4%
Commercial Airplane, Commercial Gyroplane	18	22	-18%
Commercial Airplane, Commercial Helicopter, Commercial Gyroplane	16	17	-6%
Commercial Airplane, Commercial Gyroplane, Commercial Glider	2	2	0%
Commercial Airplane, Commercial Glider, Private Helicopter	25	27	-7%
Commercial Airplane, Commercial Gyroplane, Commercial Helicopter	9	9	0%
Commercial Glider			
<b>Airline Transport Pilots--Total</b>	<b>112,167</b>	<b>107,732</b>	<b>4%</b>
Airline Transport Airplane (only)	110,131	105,830	4%
Airline Transport Airplane, Airline Transport Helicopter	2,036	1,902	7%
<b>Rotorcraft Pilots--Total</b>	<b>5,695</b>	<b>5,995</b>	<b>-5%</b>
Commercial Helicopter	5,624	5,923	-5%
Airline Transport Helicopter	59	62	-5%
Other	12	10	20%

TABLE 13  
ESTIMATED INSTRUMENT RATINGS HELD,  
BY CLASS OF CERTIFICATES, BY FAA REGION  
DECEMBER 31, 1991

Class of Certificate	Total 1/	Alaskan	Central	Eastern	Great Lakes	New England	Northwest Mountain	Southern	Southwest	Western-Pacific	Outside U.S. 2/
<b>Total--All Pilots</b>	<b>303,193</b>	<b>3,764</b>	<b>12,975</b>	<b>38,232</b>	<b>45,364</b>	<b>13,221</b>	<b>28,088</b>	<b>58,947</b>	<b>37,287</b>	<b>50,143</b>	<b>15,169</b>
<b>Private Pilots--Total</b>	<b>55,557</b>	<b>372</b>	<b>3,021</b>	<b>7,788</b>	<b>10,674</b>	<b>2,818</b>	<b>4,434</b>	<b>9,630</b>	<b>6,060</b>	<b>10,106</b>	<b>654</b>
Private Airplane (only)	51,215	304	2,814	7,112	10,110	2,628	4,053	8,690	5,535	9,371	598
Private Airplane, Private Glider	1,103	9	35	190	176	55	82	188	104	256	8
Private Airplane, Commercial Glider	134	1	2	23	22	16	21	11	14	23	1
Private Airplane, Private Helicopter	451	1	20	63	53	33	45	79	54	96	7
Private Airplane, Private Glider, Private Helicopter	31	0	0	4	4	3	3	5	3	8	1
Private Airplane, Commercial Helicopter	2,594	57	148	392	305	82	227	649	346	349	39
Private Airplane, Private Gyroplane	3	0	1	0	2	0	0	0	0	0	0
Private Airplane, Private Glider, Commercial Helicopter	16	0	1	3	0	0	2	6	2	2	0
Private Airplane, Commercial Glider, Commercial Helicopter	9	0	0	1	1	1	1	2	2	1	0
Private Airplane, Other	1	0	0	0	1	0	0	0	0	0	0
<b>Commercial Pilots--Total</b>	<b>129,774</b>	<b>2,077</b>	<b>5,887</b>	<b>16,544</b>	<b>19,863</b>	<b>5,275</b>	<b>11,386</b>	<b>23,693</b>	<b>15,872</b>	<b>21,004</b>	<b>7,673</b>
Commercial Airplane (only)	111,835	1,816	5,141	13,945	17,863	4,553	10,120	19,829	13,596	17,612	7,360
Commercial Airplane, Private Glider	1,802	22	70	286	259	76	194	328	190	361	16
Commercial Airplane, Commercial Glider	3,048	23	121	462	414	179	370	472	341	634	32
Commercial Airplane, Private Helicopter	336	3	13	49	46	22	26	65	28	66	18
Commercial Airplane, Commercial Helicopter	12,079	203	513	1,699	1,214	408	1,105	2,883	1,645	2,175	234
Commercial Airplane, Private Glider, Commercial Helicopter	130	2	5	19	17	8	17	23	11	24	4
Commercial Airplane, Commercial Glider, Commercial Helicopter	474	7	20	75	39	27	46	86	54	114	6
Commercial Airplane, Commercial Gyroplane	18	1	2	1	4	1	3	2	2	2	0
Commercial Airplane, Commercial Helicopter, Commercial Gyroplane	16	0	1	0	2	0	3	3	0	5	2
Commercial Airplane, Commercial Gyroplane, Commercial Glider	2	0	0	0	0	0	0	0	1	1	0
Commercial Airplane, Commercial Glider, Private Helicopter	26	0	0	7	4	1	1	1	3	8	1
Commercial Airplane, Commercial Gyroplane, Commercial Helicopter, Commercial Glider	8	0	1	1	1	0	1	1	1	2	0
<b>Airline Transport Pilots--Total</b>	<b>112,167</b>	<b>1,242</b>	<b>3,755</b>	<b>12,980</b>	<b>14,249</b>	<b>4,904</b>	<b>11,369</b>	<b>24,002</b>	<b>14,543</b>	<b>18,377</b>	<b>6,746</b>
Airline Transport Airplane (only)	110,131	1,183	3,713	12,615	14,071	4,780	11,192	23,590	14,219	18,094	6,674
Airline Transport Airplane, Airline Transport Helicopter	2,036	59	42	365	178	124	177	412	324	283	72
<b>Rotorcraft Pilots (only)--Total</b>	<b>5,695</b>	<b>73</b>	<b>312</b>	<b>920</b>	<b>578</b>	<b>227</b>	<b>399</b>	<b>1,622</b>	<b>812</b>	<b>656</b>	<b>96</b>
Commercial Helicopter	5,624	72	311	912	570	222	392	1,607	795	650	93
Airline Transport Helicopter	59	1	1	7	6	4	7	11	14	5	3
Other	12	0	0	1	2	1	0	4	3	1	0

1/ Includes Outside U.S. total.

2/ Outside U.S. includes airmen certificated by FAA who live outside the 50 states or foreign countries.



## **II. ACTIVE NONPILOT CERTIFICATES HELD**

TABLE 14  
ESTIMATED ACTIVE NONPILOT AIRMEN CERTIFICATES HELD  
BY FAA REGION AND STATE  
DECEMBER 31, 1991 1/

FAA Region and State	Total Nonpilot Airmen	Mechanic	Parachute Rigger	Ground Instructor	Dispatcher	Flight Navigator	Flight Engineer
Total 2/	517,432	366,362	7,916	70,086	11,607	1,225	60,236
United States--Total	493,986	350,298	7,733	67,972	9,375	1,194	57,414
Alaskan Region--Total	5,252	3,633	111	830	219	7	457
Central Region--Total	24,660	19,292	375	3,387	167	5	1,434
Iowa	3,055	2,302	83	552	11	0	107
Kansas	6,817	5,348	93	1,000	44	0	337
Missouri	12,619	10,027	136	1,477	107	3	869
Nebraska	2,169	1,615	63	358	5	2	126
Eastern Region--Total	70,152	51,030	1,234	9,449	2,188	191	6,060
Delaware	1,356	986	21	162	17	5	165
District of Columbia	350	211	20	80	17	0	22
Maryland	4,756	2,963	109	909	73	10	692
New Jersey	11,595	8,315	183	1,438	340	50	1,269
New York	25,559	20,400	245	2,669	1,192	54	999
Pennsylvania	16,773	12,331	292	2,389	368	39	1,354
Virginia	8,013	4,547	301	1,483	168	33	1,481
West Virginia	1,157	813	39	238	5	0	62
Armed Forces Europe (AE) 3/	593	464	24	81	8	0	16
Great Lakes Region--Total	66,954	46,610	1,048	10,809	1,200	32	7,255
Illinois	17,660	11,739	237	2,733	366	13	2,572
Indiana	6,740	4,810	151	1,069	77	4	629
Michigan	10,663	7,580	162	2,052	112	5	752
Minnesota	11,890	8,209	112	1,369	427	3	1,770
North Dakota	1,179	936	20	170	4	0	49
Ohio	12,410	8,910	234	2,201	145	5	915
South Dakota	1,091	774	18	220	4	0	75
Wisconsin	5,321	3,652	114	995	65	2	493
New England Region--Total	20,615	14,266	279	2,976	294	142	2,658
Connecticut	6,243	4,184	69	822	95	32	981
Maine	1,500	984	39	268	32	6	171
Massachusetts	8,942	6,940	123	1,160	104	13	602
New Hampshire	2,326	1,115	26	411	34	24	716
Rhode Island	879	607	12	162	14	2	82
Vermont	725	436	10	153	15	5	106

TABLE 14  
ESTIMATED ACTIVE NONPILOT AIRMEN CERTIFICATES HELD  
BY FAA REGION AND STATE  
DECEMBER 31, 1991 1/

FAA Region and State	Total Nonpilot Airmen	Mechanic	Parachute Rigger	Ground Instructor	Dispatcher	Flight Navigator	Flight Engineer
<b>Northwest Mountain Region--Total</b>	<b>44,773</b>	<b>29,135</b>	<b>1,102</b>	<b>6,510</b>	<b>586</b>	<b>147</b>	<b>7,293</b>
Colorado	13,789	8,499	131	2,103	222	29	2,805
Idaho	1,876	1,265	150	316	13	5	127
Montana	2,135	1,414	233	363	5	4	116
Oregon	4,750	3,364	187	795	51	24	329
Utah	3,574	2,188	75	489	23	5	794
Washington	17,411	11,469	297	2,274	261	77	3,033
Wyoming	1,238	936	29	170	11	3	89
<b>Southern Region--Total</b>	<b>93,377</b>	<b>62,719</b>	<b>1,444</b>	<b>12,476</b>	<b>2,180</b>	<b>252</b>	<b>14,306</b>
Alabama	6,630	5,290	105	992	12	9	222
Florida	41,901	28,692	459	5,653	1,286	198	5,613
Georgia	19,206	12,870	195	1,663	363	10	4,105
Kentucky	3,743	2,140	133	584	115	1	770
Mississippi	2,083	1,430	32	386	11	5	159
North Carolina	8,863	5,569	303	1,368	144	18	1,463
South Carolina	3,454	2,298	73	630	30	2	421
Tennessee	7,460	4,341	142	1,197	219	9	1,552
Armed Forces Europe (AE) 3/	37	29	2	5	0	0	1
<b>Southwest Region--Total</b>	<b>71,009</b>	<b>52,048</b>	<b>863</b>	<b>9,096</b>	<b>995</b>	<b>72</b>	<b>7,935</b>
Arkansas	2,916	2,121	64	507	20	1	203
Louisiana	5,219	4,010	78	698	46	6	381
New Mexico	2,549	1,769	56	544	28	5	147
Oklahoma	16,179	14,159	145	1,449	33	5	388
Texas	44,146	29,989	520	5,898	868	55	6,816
<b>Western-Pacific Region--Total</b>	<b>97,194</b>	<b>71,565</b>	<b>1,277</b>	<b>12,439</b>	<b>1,546</b>	<b>346</b>	<b>10,021</b>
Arizona	11,316	8,027	159	1,867	263	18	982
California	78,656	58,748	1,003	9,546	1,072	265	8,022
Hawaii	3,492	2,561	31	398	149	6	347
Nevada	3,305	1,892	54	587	53	57	662
Armed Forces Pacific (AP) 3/	425	337	30	41	9	0	8
<b>Outside U. S. --Total 4/</b>	<b>23,446</b>	<b>16,064</b>	<b>183</b>	<b>2,114</b>	<b>2,232</b>	<b>31</b>	<b>2,872</b>
<b>Other U. S. Areas:</b>	<b>1,778</b>	<b>1,309</b>	<b>36</b>	<b>225</b>	<b>84</b>	<b>0</b>	<b>124</b>
American Samoa	16	10	0	5	0	0	1
Canal Zone	36	13	18	3	2	0	0
Guam	241	127	3	30	10	0	71
Puerto Rico	1,333	1,048	12	161	69	0	43
Virgin Island	143	102	3	26	3	0	9
Wake Island	9	9	0	0	0	0	0

1/ Data for flight engineers and flight navigators represent total active ratings held. Data for dispatchers, mechanics, parachute riggers and ground instructors represent total ratings issued to date. These ratings retain their validity.

2/ Includes Outside U. S.

3/ Military personnel holding civilian certificate stationed in foreign country.

4/ Outside U.S. includes Other U.S. Areas outside of the 50 states and foreign countries.

TABLE 15  
ESTIMATED ACTIVE WOMEN NONPILOT CERTIFICATES HELD,  
BY FAA REGION AND STATE  
DECEMBER 31, 1991 1/

FAA Region and State	Total Nonpilot Airmen	Mechanic	Parachute Rigger	Ground Instructor	Dispatcher	Flight Navigator	Flight Engineer
Total 2/	10,516	3,917	370	4,034	904	0	1,274
United States--Total	10,324	3,895	360	3,946	851	0	1,255
Alaskan Region--Total	166	40	6	57	53	0	10
Central Region--Total	445	232	13	170	7	0	23
Iowa	85	48	0	34	2	0	1
Kansas	158	91	5	54	0	0	8
Missouri	161	78	5	61	5	0	12
Nebraska	41	15	3	21	0	0	2
Eastern Region--Total	1,280	331	67	523	185	0	157
Delaware	29	13	1	10	2	0	3
District of Columbia	11	0	2	4	1	0	4
Maryland	110	20	2	58	10	0	20
New Jersey	172	44	7	64	32	0	25
New York	405	120	14	153	88	0	30
Pennsylvania	304	67	22	136	44	0	35
Virginia	204	49	19	89	7	0	40
West Virginia	28	18	0	9	1	0	0
Armed Forces Europe (AE) 3/	17	6	3	6	1	0	1
Great Lakes Region--Total	1,645	609	50	658	130	0	198
Illinois	482	168	11	182	29	0	92
Indiana	162	44	16	63	11	0	28
Michigan	263	85	6	142	12	0	18
Minnesota	241	100	3	58	48	0	32
North Dakota	16	4	0	10	0	0	2
Ohio	329	166	10	124	18	0	11
South Dakota	22	6	0	15	1	0	0
Wisconsin	130	36	4	64	11	0	15
New England Region--Total	426	146	14	182	26	0	58
Connecticut	150	63	3	46	14	0	24
Maine	40	9	2	19	3	0	7
Massachusetts	152	47	7	79	6	0	13
New Hampshire	55	20	1	22	2	0	10
Rhode Island	14	5	0	7	1	0	1
Vermont	15	2	1	9	0	0	3

TABLE 15  
ESTIMATED ACTIVE WOMEN NONPILOT CERTIFICATES HELD  
BY FAA REGION AND STATE  
DECEMBER 31, 1991 1/

FAA Region and State	Total Nonpilot Airmen	Mechanic	Parachute Rigger	Ground Instructor	Dispatcher	Flight Navigator	Flight Engineer
<b>Northwest Mountain Region--Total</b>	<b>1,059</b>	<b>398</b>	<b>26</b>	<b>404</b>	<b>49</b>	<b>0</b>	<b>182</b>
Colorado	362	118	0	138	15	0	91
Idaho	36	11	2	18	3	0	2
Montana	40	7	4	25	1	0	3
Oregon	107	28	7	60	4	0	6
Utah	73	30	6	27	2	0	8
Washington	408	191	5	124	22	0	66
Wyoming	33	13	2	12	2	0	4
<b>Southern Region--Total</b>	<b>1,839</b>	<b>580</b>	<b>94</b>	<b>714</b>	<b>178</b>	<b>0</b>	<b>273</b>
Alabama	161	59	5	95	1	0	1
Florida	806	268	21	298	104	0	115
Georgia	209	85	6	67	18	0	33
Kentucky	129	29	6	43	21	0	30
Mississippi	36	13	1	20	1	0	1
North Carolina	198	48	23	88	8	0	31
South Carolina	79	28	2	37	3	0	9
Tennessee	221	50	30	66	22	0	53
<b>Southwest Region--Total</b>	<b>1,354</b>	<b>607</b>	<b>43</b>	<b>493</b>	<b>98</b>	<b>0</b>	<b>113</b>
Arkansas	45	17	1	22	1	0	4
Louisiana	98	47	2	38	9	0	2
New Mexico	71	23	2	40	2	0	4
Oklahoma	287	185	8	84	2	0	8
Texas	853	335	30	309	84	0	95
<b>Western-Pacific Region--Total</b>	<b>2,110</b>	<b>952</b>	<b>47</b>	<b>745</b>	<b>125</b>	<b>0</b>	<b>241</b>
Arizona	265	97	5	115	24	0	24
California	1,697	815	39	574	74	0	195
Hawaii	83	19	0	33	20	0	11
Nevada	60	20	0	22	7	0	11
Armed Forces Pacific (AP) 3/	5	1	3	1	0	0	0
<b>Outside U. S. --Total 3/</b>	<b>192</b>	<b>22</b>	<b>10</b>	<b>88</b>	<b>53</b>	<b>0</b>	<b>19</b>
<b>Other U. S. Areas:</b>	<b>21</b>	<b>9</b>	<b>0</b>	<b>8</b>	<b>2</b>	<b>0</b>	<b>2</b>
American Samoa	0	0	0	0	0	0	0
Canal Zone	0	0	0	0	0	0	0
Guam	4	2	0	0	0	0	2
Puerto Rico	13	5	0	6	2	0	0
Virgin Island	4	2	0	2	0	0	0
Wake Island	0	0	0	0	0	0	0

1/ Data for flight engineers and flight navigators represent total active ratings held. Data for dispatchers, mechanics, parachute riggers and ground instructors represent total ratings issued to date. These ratings retain their validity.

2/ Includes Outside U. S.

3/ Military personnel holding civilian certificate stationed in foreign country.

4/ Outside U.S. includes Other U.S. Areas outside of the 50 states and foreign countries.

### **III. PILOT CERTFICATES ISSUED**

TABLE 16  
PILOT CERTIFICATES ISSUED, BY CATEGORY  
CALENDAR YEARS 1987-1991

	1987		1988		1989		1990		1991	
Category of Certificates	Original	Additional	Original	Additional	Original	Additional	Original	Additional	Original	Additional
Pilot--Total	149,640	39,990	148,018	37,921	146,951	46,990	156,955	45,730	161,009	51,435
Student	85,611	0	86,193	0	87,427	0	88,586	0	87,205	0
Private	42,278	16,302	39,900	15,800	35,360	22,240	41,749	19,299	49,580	23,630
Commercial	11,314	11,365	12,042	10,597	13,759	11,778	15,500	12,584	16,869	13,506
Airline Transport	7,678	11,956	7,461	11,209	7,829	12,698	8,013	13,540	8,437	13,979
Helicopter (only)	2,217	293	1,947	287	2,240	252	2,700	266	3,344	291
Glider (only)	542	74	475	28	336	22	378	41	487	29
Recreational	N/A	N/A	N/A	N/A	N/A	N/A	29	0	87	0
Nonpilot--Total r/	21,878	5,486	21,064	6,107	23,078	7,688	27,113	8,387	31,882	9,567
Mechanic	15,089	4,195	14,907	4,353	15,923	5,728	19,861	6,381	24,299	7,653
Parachute Rigger	194	11	142	8	167	21	227	12	228	33
Ground Instructor	1,825	366	1,716	334	2,133	399	2,664	434	3,527	493
Dispatcher	533	3	510	2	431	5	550	2	623	3
Flight Navigator	4	0	17	0	14	0	1	1	3	0
Flight Engineer	4,233	911	3,772	1,410	4,410	1,535	3,810	1,557	3,202	1,385
Flight Instructor										
Certificates 1/	6,327	6,378	4,898	5,234	5,365	7,532	7,071	8,517	8,164	9,470
Instrument Ratings 2/	0	18,296	0	16,810	0	20,911	0	22,528	26,007	0

1/ Not included in total.

2/ Special ratings shown on pilot certificates represented above; not included in total.

r/ Revised 1987-1988.

N/A Not Available.

Note: Additional ratings are entered on current airman certificates as follows:

Private, commercial, and airline transport pilot--aircraft category, class, and type instrument rating.

Helicopter pilot--instrument and type ratings.

Flight instructor--ratings for each aircraft category in which the holder is qualified, and for instrument flying instructions.

Mechanic--airframe and powerplant ratings.

Parachute rigger--senior or master rigger--senior or master rigger ratings.

Ground instructor--ratings for each subject in which the holder is qualified to give instruction.

TABLE 17  
PILOT CERTIFICATES ISSUED, BY CATEGORY AND CONDUCTOR  
DECEMBER 31, 1991

Category of Certificates	Total Ratings Issued	Original Issuances				Additional Ratings			
		Total	Examiner	Inspector	No Test	Total	Examiner	Inspector	No Test
<b>Pilot--Total</b>	<b>212,444</b>	<b>161,009</b>	<b>63,120</b>	<b>83,194</b>	<b>14,695</b>	<b>51,435</b>	<b>44,958</b>	<b>1,790</b>	<b>4,687</b>
Student	82,205	82,205	0	82,205	0	0	0	0	0
Private	73,210	49,580	40,231	147	9,202	23,630	21,705	164	1,761
Commercial	30,375	16,869	13,037	71	3,761	13,506	11,314	222	1,970
Airline Transport	22,416	8,437	7,449	556	432	13,979	11,746	1,356	877
Helicopter (only)	3,635	3,344	1,953	106	1,285	291	193	23	75
Glider (only)	516	487	450	22	15	29	0	25	4
Recreational	87	87	0	87	0	0	0	0	0
<b>Nonpilot--Total</b>	<b>41,449</b>	<b>31,882</b>	<b>24,241</b>	<b>280</b>	<b>7,361</b>	<b>9,567</b>	<b>7,005</b>	<b>20</b>	<b>2,542</b>
Mechanic	31,952	24,299	20,635	12	3,652	7,653	6,441	7	1,205
Parachute Rigger	261	228	124	29	75	33	22	2	9
Ground Instructor	4,020	3,527	521	14	2,992	493	89	8	396
Dispatcher	626	623	390	89	144	3	0	0	3
Flight Navigator	3	3	0	1	2	0	0	0	0
Flight Engineer	4,587	3,202	2,571	135	496	1,385	453	3	929
Flight Instructor Certificates *	17,634	8,164	6,004	1,925	235	9,470	9,169	252	49

Note: Additional ratings are entered on current airman certificates as follows:

Private, commercial, and airline transport pilot--aircraft category, class, and type instrument rating.

Helicopter pilot--instrument and type ratings.

Flight instructor--ratings for each aircraft category in which the holder is qualified, and for instrument flying instructions.

Mechanic--airframe and powerplant ratings.

Parachute rigger--senior or master rigger--senior or master rigger ratings.

Ground instructor--ratings for each subject in which the holder is qualified to give instruction.

\* Special ratings shown on pilot certificates represented above; not included in total.



**TABLE 18**  
**INSTRUMENT RATINGS ISSUED:**  
**1991, 1990, AND 1987**

Class of Certificate	1991	1990	1987	Percent Change 1991-1990
<b>Total--All Pilots</b>	<b>25,992</b>	<b>22,528</b>	<b>18,296</b>	<b>15%</b>
<b>Private Pilots--Total</b>	<b>15,934</b>	<b>13,065</b>	<b>11,142</b>	<b>22%</b>
Private Airplane (only)	14,362	11,848	10,397	21%
Private Airplane, Private Glider	128	111	135	15%
Private Airplane, Commercial Glider	30	15	12	100%
Private Airplane, Private Helicopter	59	36	35	64%
Private Airplane, Private Glider, Private Helicopter	2	1	1	100%
Private Airplane, Commercial Helicopter	359	309	234	16%
Private Airplane, Other	994	745	328	33%
<b>Commercial Pilots--Total</b>	<b>8,911</b>	<b>8,338</b>	<b>5,996</b>	<b>7%</b>
Commercial Airplane (only)	7,970	7,408	5,044	8%
Commercial Airplane, Private Glider	58	54	48	7%
Commercial Airplane, Commercial Glider	54	66	61	-18%
Commercial Airplane, Private Helicopter	22	12	14	83%
Commercial Airplane, Commercial Helicopter	802	788	814	2%
Commercial Airplane, Private Glider, Commercial Helicopter	1	4	7	-75%
Commercial Airplane, Commercial Glider, Commercial Helicopter	3	4	7	-25%
Commercial Airplane, Other	1	2	1	-50%
<b>Rotorcraft Pilots--Total</b>	<b>1,147</b>	<b>1,125</b>	<b>1,158</b>	<b>2%</b>
Commercial Helicopter	1,103	1,097	1,135	1%
Commercial Helicopter, Private Glider	4	1	1	300%
Commercial Helicopter, Airline Transport Helicopter	28	20	20	40%
Commercial Helicopter, Other	12	7	2	71%

**TABLE 19**  
**STUDENT CERTIFICATES ISSUED, BY MONTH:**  
**1987 - 1991**

YEAR	1987	1988	1989	1990	1991
<b>TOTAL</b>	<b>85,661</b>	<b>82,110</b>	<b>87,427</b>	<b>88,586</b>	<b>82,205</b>
January	6,098	5,410	7,789	6,699	5,704
February	6,543	6,157	7,156	6,266	5,541
March	7,125	7,133	6,833	7,372	5,950
April	7,139	6,606	6,059	7,044	6,513
May	6,164	7,014	6,870	7,604	6,622
June	8,491	8,539	8,675	8,284	7,932
July	8,973	7,796	8,305	9,037	8,442
August	8,389	8,981	8,976	9,155	8,580
September	8,109	7,624	8,080	7,509	7,630
October	7,585	7,133	7,616	8,103	7,956
November	5,912	6,086	6,203	6,551	7,661
December	5,133	3,631	4,865	4,962	3,674